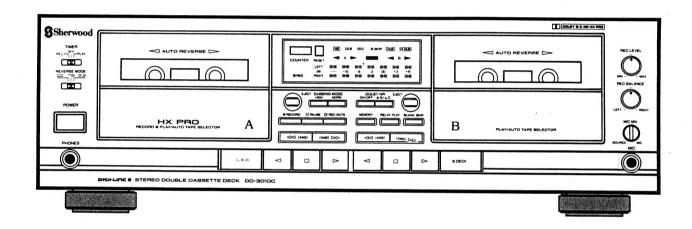
# SERVICE MANUAL

# **DD-3010C**

### STEREO DOUBLE CASSETTE DECK



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### Safety Precaution

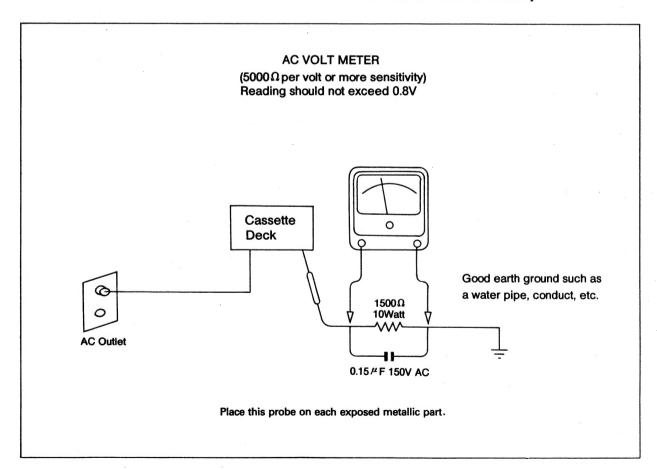
#### WARNING

Service should not be attempted by anyone unfamiliar with the necessary precautions on this player. The following precautions are necessary during servicing.

- 1. Many electrical and mechanical parts in this player have special characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristic are identified in this manual and its supplements: electrical components having such features are identified by a Ain the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characterstics as specified in the parts list may create shock, fire or other hazards.
- Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as

terminals, screwheads, metal overlays, etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet(120V Version only).(Do not use a line isolation transformer during this check.) Use an AC voltmeter having  $5000\Omega$  per volt or more sensitivity in the following manner: Connect a  $1500\Omega$  10watte resistor paralleled by a  $0.15\,^{\mu}$ F 150V AC capacitor, between a known good earth ground(water pipe, conduct, etc.)and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of  $1500\Omega$  resistor and  $0.15\,^{\mu}$ F capacitor. Reverse the AC plug

at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

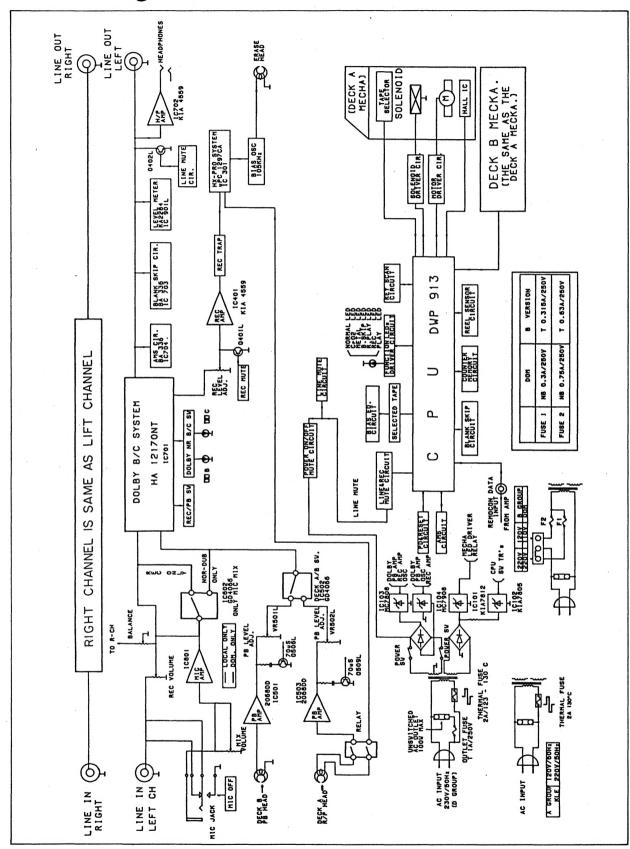


## **Specifications**

Track Configuration The 4-track, 2-channel and rotary reverse heads & Stereo Cassette Deck motors.
1 - Electronic Governor
1 - High Torgue DC Motor(Reel)
Mechanism
1 - Motor, 1 - Solenoid Mechanism
Heads
Rec / Playback Head ······ Hard Permalloy
Erase Head
Tape Speed 1 and 7/8 IPS(4.76cm/sec)
(FWD/REV)
Wow Flutter(WRMS) ····· No More than 0.13%
Fast Winding Time(C - 60)
Input Sensitivity Impedance
MIC
Output Level / Impedance
Line
Signal to Noise Ratio(W.CCIR/ARM)
CrO2 Tape with Dolby B / C NR · · · · · · · · · · · · More than 64 / 75dB CrO2 Tape without Dolby NR · · · · · · · · · · More than 55dB
CrO2 Tape without Dolby NR · · · · · More than 55dB
Frequency Response(- 20dB REC Dolby NR off) Normal Tape
Normal Tape · · · · · · 20Hz - 17,500kHz, ±3dB
CrO2 Tape
Metal Tape
THD(1kHz, 0dB Rec)
Channel Separation
Power Consumption · · · · 18W
Power Requirements;
A: 120V 60Hz for American / Canadian Version
B: 120 / 220V, 60 / 50Hz for Multi - voltage Version(switchable)
C:230V 50Hz for General European Version
D:230V 50Hz for German / Italian Version
E: 240V 50Hz for U.K / Australian Version
F: 230V 50Hz for Swiss / Scandinabian Version
KLE: 220V 50Hz for Tailand
Dimensions 440(W)×125(H)×245(D)mm 17.3(W)×4.9(H)×9.6(D)inch
Weight(Net)

Note: Component and circuity are subject to modification to insure best operation under differing local conditions. This manual is based on the European standard, and provides information on regional circuit modification through use of alternate schematic diagram, and information on regional component variations though use of parts list. Design and Specifications subject to change without notice for improvement.

### **Block Diagram**



# Alignment Procedures

#### **Before Measurements and Adjustment**

The following general conditions apply to the electrical measurements and adjustments unless especially stated otherwise.

- Dolby NR switch off.
- Volume control: Recording level VR901 max.
- Use 500mV(200mwb/m) for 0dB as the standard level of the unit.

#### Test tape

- ◆ TCC 155 Azimuth(14kHz, 24dB)
   ◆ TCC 112 Tape speed(3kHz, 10dB)
- TCC-130 ——— Playback level (Dolby NR ref. tape 400Hz, 0dB)
- TCC 185C Playback frequency response

#### - Reference Tape

Normal — TDK AC - 224
 CrO<sub>2</sub> — TDK AC - 513
 Metal — TDK AC - 712

#### 2. Instrument required

- Audio frequency oscillator
- ACVM or dual channel, mV-meter
- Wow / Flutter meter
- Oscilloscope

#### Playback section

Adjustment	Test tape	Mode	Apply signal to	Measure on	Read on	Adjust with	Adjust to	
Head Azimuth	TCC - 155 14kHz (A.BEX)	FWD Play (A & B Deck)		Line output	ACmV - meter Oscilloscope	Adjusting a reft screw of head	Max  ● Lissajous' figure become	*a
		REV play (A & B Deck)				Adjusting a right screw of head	a straight line with an angle 45 degrees	
Playback	TCC-112	Play			Wow and	A Deck VR201		*b
Speed	3kHz	(A & B Deck)			Flutter Meter	&	3000Hz ± 30Hz	
at normal	- 10dB(A.BEX)	1	1			B Deck VR203		
Playback	TCC-112			'		A Deck VR202		
Speed	3kHz					&	4500Hz ± 45Hz	
at Hi-speed	- 10dB(A.BEX)					B Deck VR204		
Playback	TCC - 130	1			ACmV - meter	A Deck VR502L/R	500mV	
Level	400Hz 0dB						V 10-21 V	
	(A.BEX)					B Deck VR510L/R		
Playback	TCC-185C				ACmV-		See graph Fig. 3	
frequency	12.5kHz,1kHz,				-meter		freq. response	
responce	60Hz(A.BEX)							

#### **Recording section**

Adjustments	Test tape	Mode	Apply signal to	Measure on	Read on	Adjust with	Adjust to
Bias OSC Frequency	AC - 712 (TDK)	Rec / Pause		White color of CNT302	Frequency Counter	L305	105kHz ± 400Hz
105kHz trap suppression	AC - 712 (TDK)	·		TP2L/R	ACmV - meter Oscilloscope	L301L/R	Minimize the reading on ACVM

Adjustments	Test tape	Mode	Apply signal to	Measure on	Read on	Adjust with	Adjust to	
Target value Bias	Metal AC - 712			TP1L/R		VR301L/R	AC40V	
	CrO2, AC-513 Normal, AC - 224	·				VR303 VR302	AC20V AC10V	
Recording Level	AC - 712 (TDK)		400Hz to Line	Line out		VR701L/R		*c
Bias	AC - 712 AC - 513	Rec / Pause	400Hz to Line	Line out	ACmV - meter	See Target Value Bias	If it necessary	*d
	AC - 224 (TDK)		4kHz - 6.3kHz 10kHz - 12kHz 14kHz - 16kHz to Line in		Recording numbers ency with the sa voltage and play	me input	repeat bias adjustment	
19kHz suppression	Arbitrary Tape	Rec / Pause	400Hz to Line in	Line input	ACmV - meter	LF Generator	100mV	
				Line output	ACmV - meter Oscilloscope	L701L/R	Minimize the reading on ACVN	v

#### Note:

- \*a. Prior to any measurement or adjustment with the tape running, heads and tape guides should be degaussed and cleand. Referenc below the figure. \*b. The maximum permissible speed variation  $\pm$  1.0%. Moreover the Wow and Flutter can be read.
- This value should not be exceed 0.2%.
- \*c. The voltage on Line out should be 500mV  $\pm$  20mV. If not, it reduces the LF signal(bias disabled) as many as the reading was too low or too high by VR502L/R and VR 501L/R.
- \*d. When the channel is adjusted, this may slightly affect the adjustment of the other channel. If the adjustment is correct, the frequency response curve will be similar to curve b in figure 4, distortion below 3%.

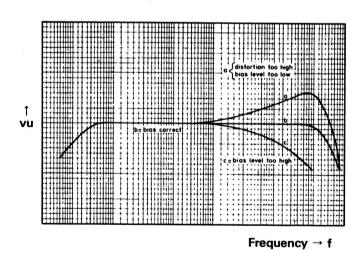
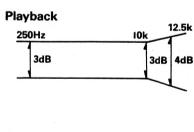


Fig. 2



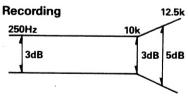
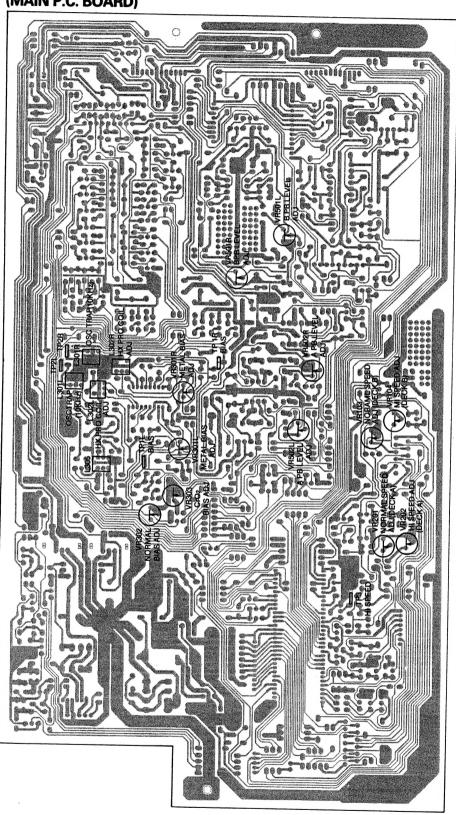
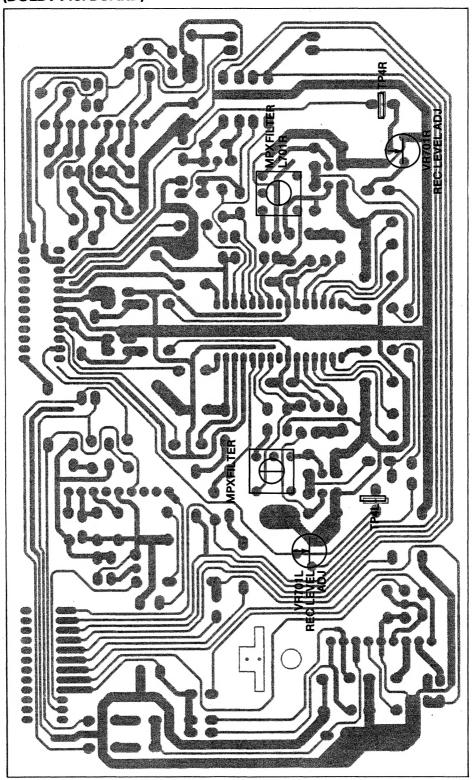


Fig. 1 Allowable Playback/Recording Frequency Response Zone

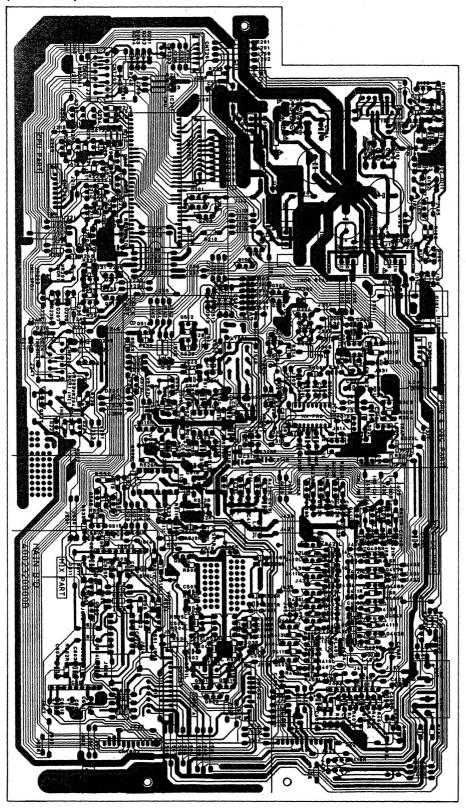
# Adjustment Point (MAIN P.C. BOARD)



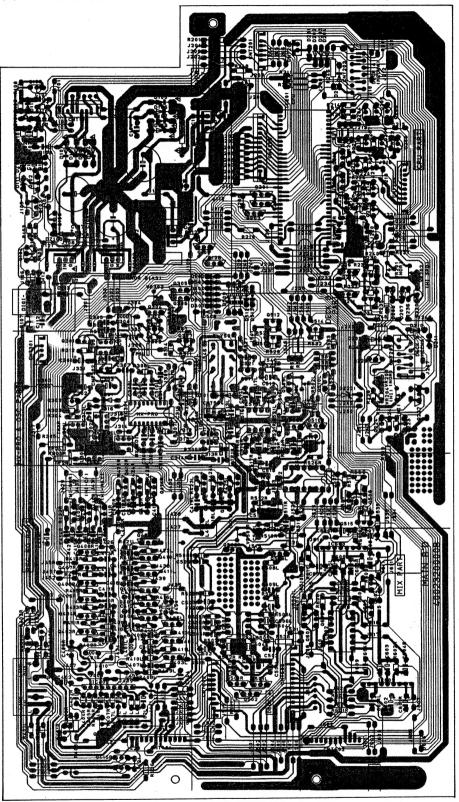


# P.C. Boards (Top & Bottom Views)

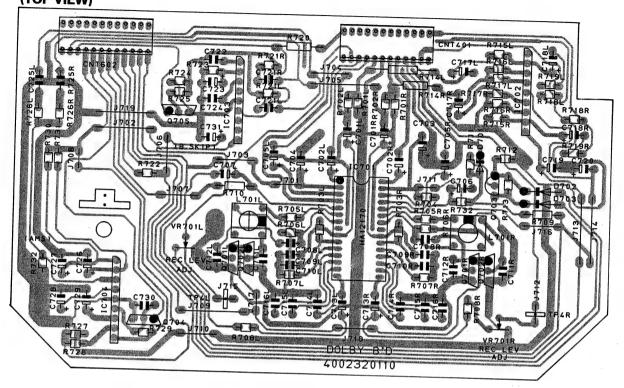
MAIN P.C BOARD (TOP VIEW)



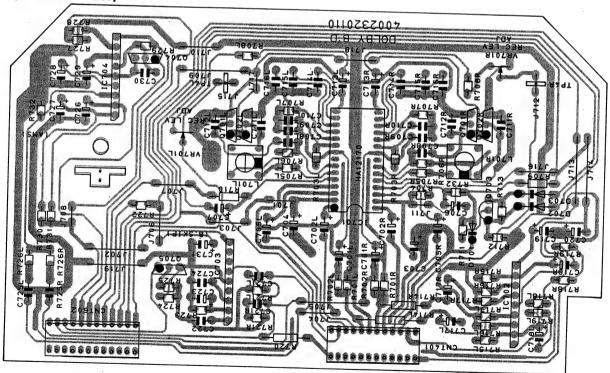


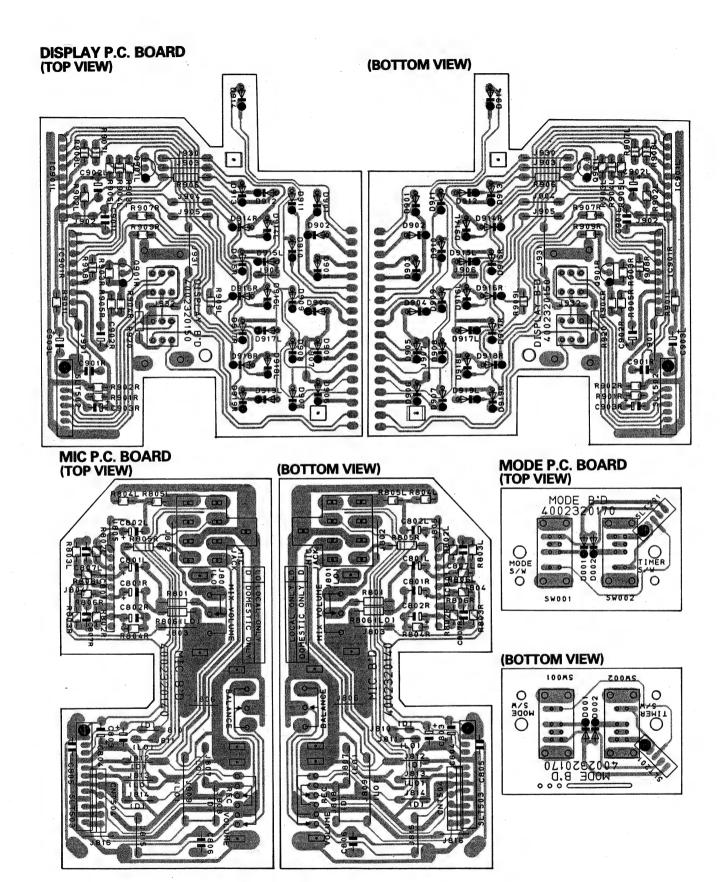


# DOLBY P.C. BOARD (TOP VIEW)

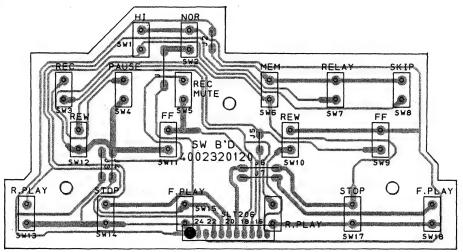


#### (BOTTOM VIEW)

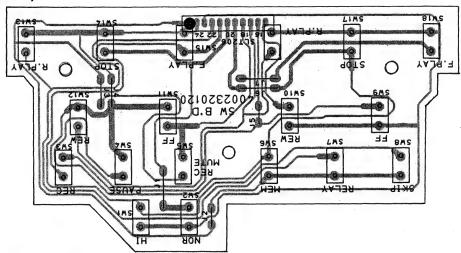




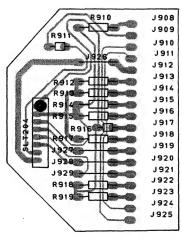
# SW P.C. BOARD (TOP VIEW)



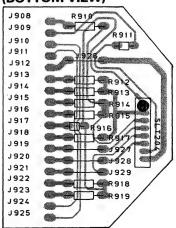
#### (BOTTOM VIEW)



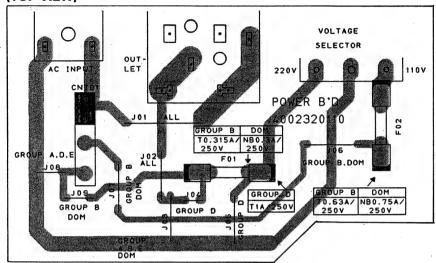
# DISPLAY P.C. BOARD (TOP VIEW)



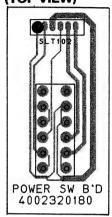
#### (BOTTOM VIEW)



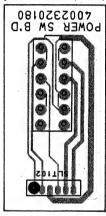
#### **POWER P.C. BOARD** (TOP VIEW)



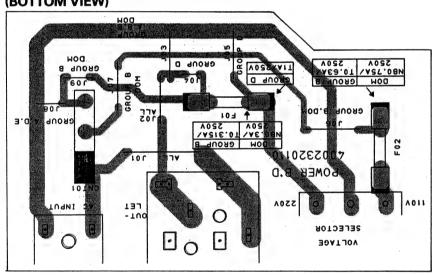
#### **POWER SW P.C. BOARD** (TOP VIEW)



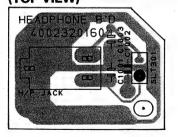
#### (BOTTOM VIEW)



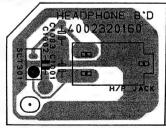
#### (BOTTOM VIEW)



**HEADPHONE P.C. BOARD** (TOP VIEW)

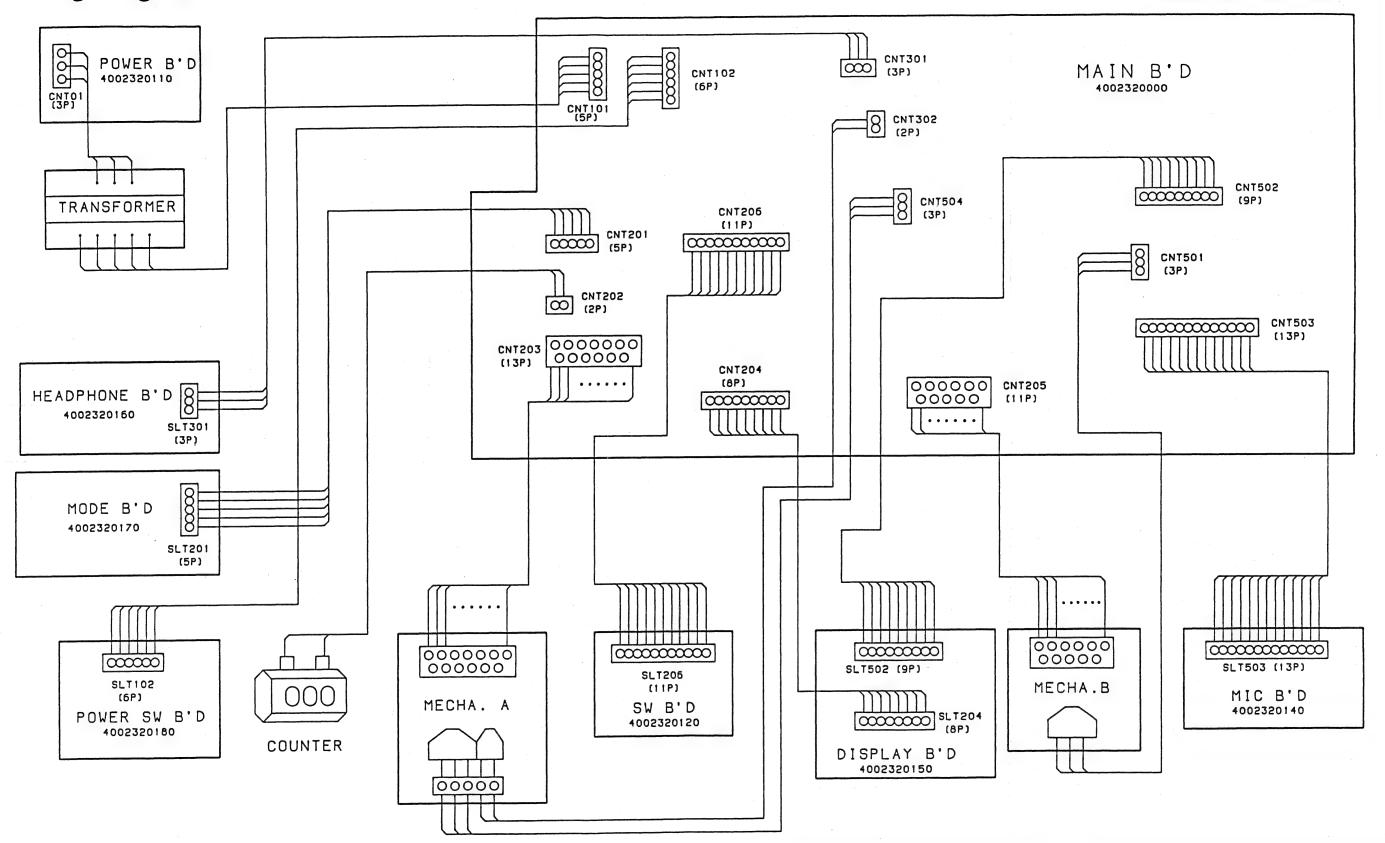


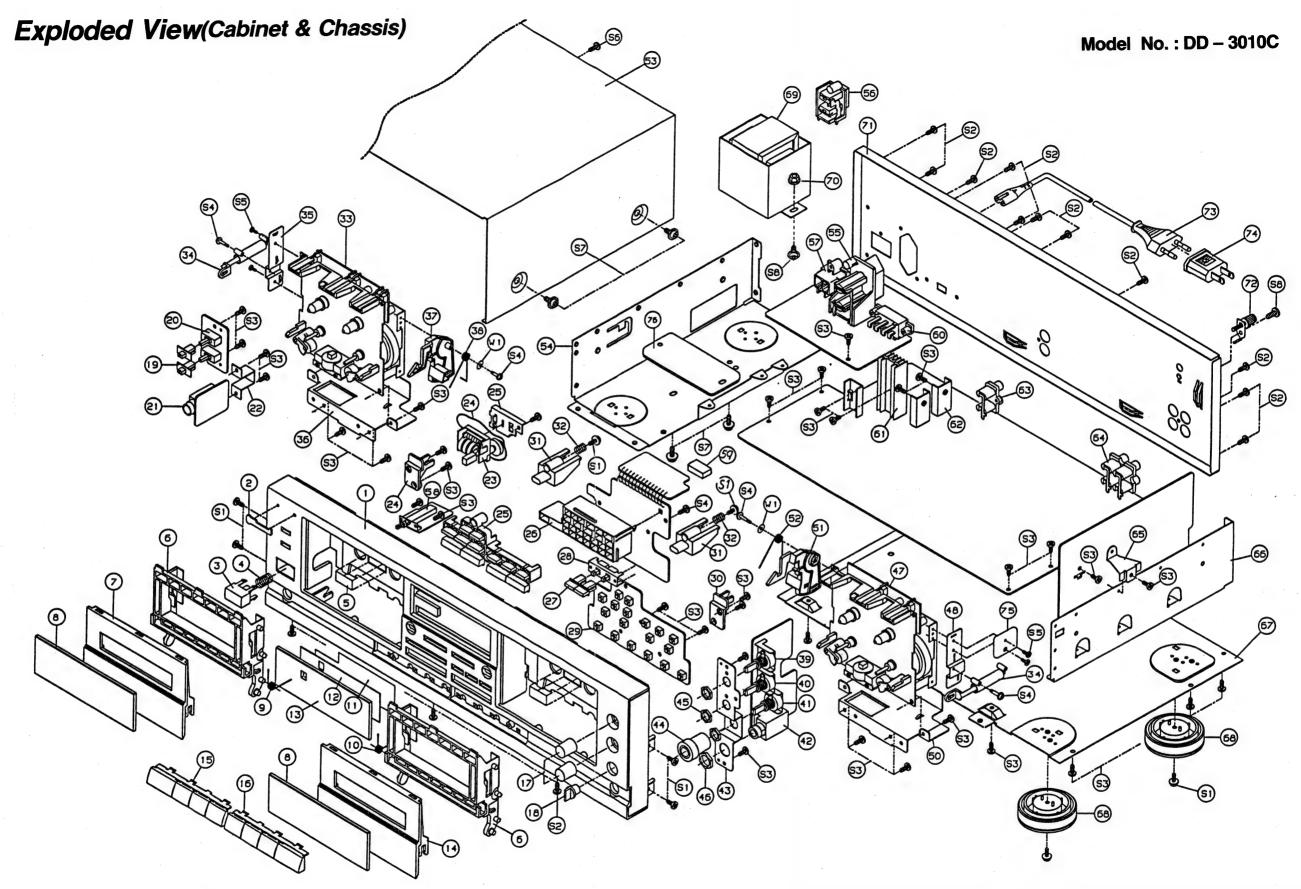
(BOTTOM VIEW)



### Wiring Diagram

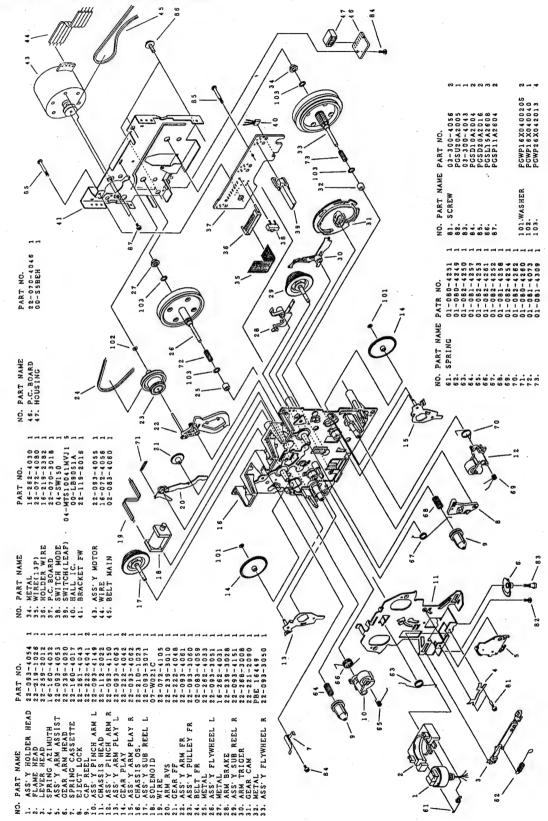
Model No.: DD - 3010C



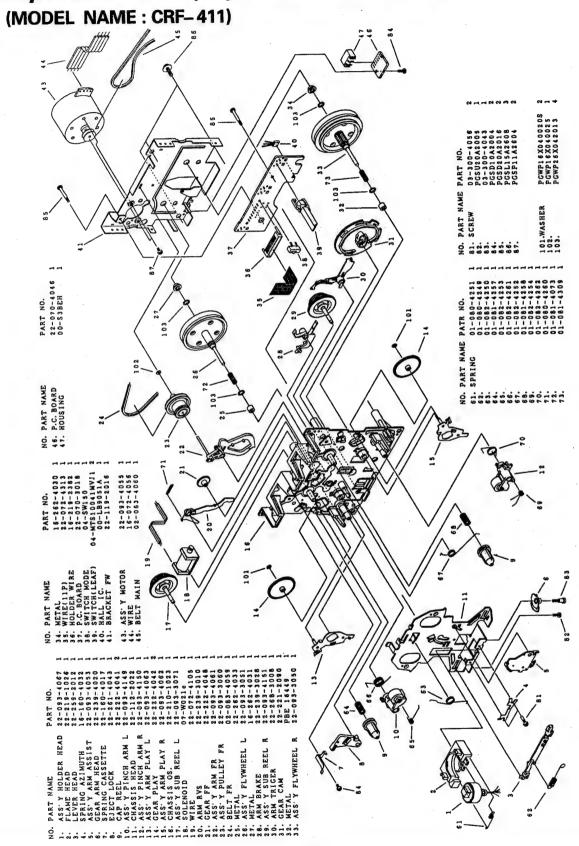


# Exploded View(I) (Deck Mechanism Ass'y)

(MODEL NAME: CRF-410)



# Exploded View(II) (Deck Mechanism Ass'y)



### Electrical Parts List

PRODUCT SAFETY NOTICE: If you replace any of these components, carefully read the product safety notice of this manual. Don't degrade the safety of the product through improper servicing. Remark meaning for version, so refer to power requirement of Specifications in this manual. Resistors & Capacitors tolerance;  $D(\pm 0.5\%)$ ,  $J(\pm 5\%)$ ,  $K(\pm 10\%)$ ,  $M(\pm 20\%)$ , Z(+80%), -20%

Ref.No	Part No.		Description	1,		Remark
Main	P.C. B	oard				
Capacit	ors					
C101	3479222971	Electric SA		50V	М	
C102/C103	3479247971	Electric SA		50V	M	
C104	3679473120	Mylar	0.047uF	50V	J	
C105	3409333249	Electric SG	3300uF	25V	M	
C106/C108	3409322249	Electric SG	2200uF	25V	М	
C107	3479322121	Electric SG	220uF	10V	М	
C109	3479347121	Electric SG	470uF	107	M	
C110/C111	3519104935	Ceramic	O.1uF	50V	K	
C112	3579102130	Ceramic	0.001uF	50V	K	
C201	3479322071	Electric SG	22uF	50V	M.	
C202	3519104935	Ceramic	0.1uF	50V	K	
C301/C303	3479310121	Electric SG	100uF	10V	м	
C302	3479333061	Electric SG	33uF	35V	М	
C304	3679123120	Mylar	0.012uF	100V	J	
C305	3679153120	Mylar	0.015uF	100V	J	
C306	3679472120	,	0.0047uF	100V	J	
C307	3579100130	Ceramic	10pF	50V	D	
C308L/R	3679273120		0.027uF		J	
C309L/R	3679223120	Mylar	0.022uF		J	
C310L/R	3679103120	Mylar	0.01uF		1	
C311L/R	3579561130	Ceramic	560pF	50V	J	
C312	3679473120	Mylar	0.047uF		J	
C313L/R	3579331130	Ceramic	330pF		J	
C315L/R	•	Not used				
C314L/R	3579471120	Ceramic	470pF	50V	J	
C316/C317	3479333061	Electric SG	•	35V	М	
C401L/R	3479247971	Electric SA	4.7uF	50V	м	
C402L/R	3479222871	Electric SA		50V	М	
C403/C404	3479347161	Electric SG		35V	М	
C406L/R	3479210971	Electric SA		50V	М	
C407L/R	3679333120	Mylar	0.033uF	100V	J	
C408L/R	•	Not used			1	
C409L/R	3679472120	Mylar	0.0047uF	100V	J	
C410L/R	3679183120	Mylar	0.018uF		j	
C411L/R	3679153120	Mylar	0.015uF		J	
C412L/R	3679183120	Mylar	0.018uF		1	
C413L/R	3679153120	Mylar	0.015uF	100V	از	
C414L/R		Not used		1001	٦	
C415L/R	3679223120	Mylar	0.022uF	100V	J	
C416L/R	3679333120	Mylar	0.033uF		J	
C417L/R	3679273120	Mylar	0.027uF	100V	١	
C418L/R	3679273120	Mylar	0.027uF	100V	j	
C419L/R	3679183120	Mylar	0.027uF	100V	J[	
C501L/R	3579331130					
		Ceramic	330pF	50V	J	
C502/C503	3479330161	Electric SA			М	
C504L/R	3579471130	Ceramic	470pF		1	
C505L/R	3579101130	Ceramic	100pF		1	
C506L/R	3679223120	Mylar	0.0220F		J	
C507L/R	3479247971	Electric SA		50V	М	
C508/C510	0070400400	Not used		4001		
C509L/R	3679183120	Mylar	0.018uF	100V	1	
C511L/R	3579331130	Ceramic	330pF	50V	1	
C512L/R	3579221130	Ceramic	220pF	50V	J	

Ref.No	Part No.	Description	Remark
C513L/R	3579821130	Ceramic 820pF 50V J	
C514L/R	3579101130	Ceramic 100pF 50V J	
C515L/R	3679223120	Mylar 0.022uF 100V J	
C516L/R	3479247971	Electric SA 4.7uF 50V M	
C517L/R	•	Not used!	
C518/C519	3479333061	Electric SG 33uF 35V M	
C520L/R	3679183120	Mylar 0.018uF 100V J	
C521	3479347041	Electric SG 47uF 25V M	
		FI-1- CA 47-F FOV A4	
C601L/R	3479247971	Electric SA 4.7uF 50V M	
C602/C603	3479333061	Electric SG 33uF 35V M	
C604L/R-C606L/R		Electric SA 4.7uF 50V M	
C607/C608	3479333061	Electric SG 33uF 35V M	
0		L	
Connecto			
CNT101	4428506910	Plug 5P	
CNT102	4428505810	Plug 6P	
CNT201	4428531320	Wire Trap 5P	
CNT202	4428517510	Plug 2P	
CNT203	4428524340	Wire Trap 13P	
CNT204	4428531620	Wire Trap 8P	
CNT205	4428525320	Wire Trap 11P	
CNT206	4428531920	Wire Trap 11P	
CNT301	4428531120	Wire Trap 3P	
CNT302	4428517510	Piug 2P	
0.11002	1120017010	1 nag 21	
CNT401	4428550120	Board to Board Plug 12P	
CINTAGI	4420000120	Dodic to Board Flug 121	
CNT501	4428526870	Plug 3P	
CNT502	4428531720	Wire Trap 9P	
CNT503	4428532120	Wire Trap 13P	
CNT504	4428517610	Plug 3P	
CNITCOD	A400FE0100	Donal to Donal Div. 12D	
CNT602	4428550120	Board to Board Plug 12P	
0 "	-		
Coils	0000004000	D. T. 405111	
L301L/R	2658501080		
L302L/R	2638601240	HX—PRO, Coil	
L303/L304	2648610284	Inductor, 1mH	
L305	2638601150	OSC Coil	
L401L/R	648601220	Inductor, 6.3mH	
L402L/R	2648601040	Inductor, 2mH	
L-OZL/ II	2040001040	magotol, zilili	
Diodes		L	
D101 D108	2058106100	1N4002	<del></del>
D109 - D113	2058322101	1N4148M	
2103-2113	2000022101	1177170191	
D201 - D208	2058322101	1N4148M	
D209	2058322101	1N4148M	
200		1N4148M	
D210 - D211	2058322101	[ 1144140M	
D210 - D211			
	2058322101 2058322101 2058322101	1N4148M 1N4148M	

Ref.No	Part No.	Description	Remark
DZ101/DZ102	2258599103	Zener, UZ DZ5. 1BSB	
DZ103	2258599100	Zener, DZ3. 3BSA	
DZ201	2258599107	Zener, DZ9. 1BSC	
IC's	T		
IC101	2168606103	KIA7805, Regulator	
IC102	2168606104	KIA7812, Regulator	
IC103	2168602101	MC7808, Regulator	1
IC104	2168602102	MC7908, Regulator	-
IC201	2138322132	DWP913, CPU	
IC301	2168013111	uPC1297CA, HX - PRO	
IC401	2168206103	KIA4559, Rec EQ	
IC501	2168020106	NJM2068DD, B Deck PB	1
IC502	2138001101	GD4066B, A/B Deck PB Switching	
IC503	2168020106	NJM2068DD, A Deck PB	(300)
IC601	2168206103	KIA4559, Buffer	Dom.
IC601	2168206103	GD4066B, MIC MIX Switching	Dom.
IC602	2168206103	KIA4559, Buffer	Dom.
10005	2100200103	KIA4309, Dunei	DOM.
Resistors	5		•
R101		5.6kΩ	
R102	3069202970	2kΩ	
R103	3069473970	47kΩ	
R104	3069103970	10kΩ	
R105	3069302970	3kΩ	
R106	3069223970	22kΩ	
R107	3069224970	220kΩ	
R108	3069102970	1kΩ	
R109	3069103970	10kΩ	
R110	3069202970	2kΩ	
R111	3039100572	C.,10\Omega 2W	
R112	3069109970	10	
R113	3069202970	2kΩ	
R201	3069103970	10kΩ	
R202 - R209	3069473970	47kΩ	
R210 - R213	3069103970	10kΩ	
R214 R216	3069102970	1kΩ	
R217 - R219	3069302970	3kΩ	
R220 - R222	3069473970	47kΩ	
R223	3069302970	3kΩ	
R224 - R225	3069473970	47kΩ	
R226	3069751970	750Ω	1
R227	3069473970	47kΩ	
R228	3069751970	750Ω	ľ
R229	3069102970	1kΩ	1
R230	3069472970	4.7kΩ	1
R231	3069473970	47kΩ	
R232	3069751970	750Ω	
R233	3069473970	47kΩ	1
R234	3069751970	750Ω	
R235/R236	3069473970	47kΩ	
R237/R238	3069432970	4.3kΩ	1
R239/R240	3069302970	3kΩ	
R241	3069183970	18kΩ	1
R242	3069473970	47kΩ	
R243	3069302970	3kΩ	
R244	•	Not used !	
R245	3069103970	10kΩ	}
		<u></u>	

Ref.No	Part No.		Description	Remark
R246	3069183970	18kΩ		
R247	3069102970	1kΩ		
R248	3069103970	10kΩ		
R301	3069393970	39kΩ		
R302	3069109970	1Ω		
R303 - R305L/R	3069562970	5.6kΩ		
R306L/R	3069154970	150kΩ		
R307L/R	3069333970	33kΩ		
		10Ω		
R308	3069100970	47kΩ		
R309	3069473970	3kΩ		
R310	3069302970		•	
R311	3069102970	1kΩ		
R312	3069150970	15Ω		
R313	3069562970	5.6kΩ		
R401L/R	3069273970	27kΩ		
R402L/R	3069302970	3kΩ		·
R403L/R	3069302970	3kΩ		
R404L/R	3069564970	560kΩ		
R405L/R	3069682970	6.8kΩ		
R406L/R	3069332970	3.3kΩ		
R407L/R	3069473970	47kΩ		
R408L/R	3069822970	8.2kΩ		-
R409L/R	3069822970	8.2kΩ		
R410L/R	3069243970	24kΩ		
		24kΩ		
R411L/R	3069243970		•	
R412L/R	3069512970	5.1kΩ		
R413L/R	3069362970	3.6kΩ		
R415L/R	3069221970	220Ω		
R416L/R	3069221970	220Ω		
R417L/R	3069181970	180Ω		
R418L/R	3069302970	3kΩ	,	· ·
R419L/R	3069622970	6.2kΩ		
R423L/R-R425L/R	3069560970	56Ω		
R426	3069302970	3kΩ		
R501L/R	3069472970	4.7kΩ		
R502L/R	3069104970	100kΩ		
R503L/R	3069390970	39Ω	•	
R504L/R	3069104970	100kΩ		
R505L/R	3069682970	6.8kΩ		
R506L/R	3069302970	3kΩ		
R508L/R	3069302970	3kΩ	1	
R510L/R	3069333970	33kΩ		
R511L/R	3069104970	100kΩ		
R513	3069103970	10kΩ		
R515	3069202970	2kΩ		
R516L/R	3069104970	100kΩ		
R517L/R	3069104970	100kΩ		
R518L/R	3069682970	6.8kΩ		1
R521L/R	3069390970	39Ω		
R523	3069330970	33Ω		1
R524L/R	3069302970	3kΩ		
R525L/R	3069302970	3kΩ		
R526L/R	3069333970	33kΩ		
R527	3069302970	3kΩ		l
R528/R529	3069473970	47kΩ		
R530/R531		3kΩ		
	3069302970			
R532	3069473970	47kΩ		
R533	3069302970	3kΩ		
R534	3069473970	47kΩ		
D2 12	1 41 8544 4 [ [ / U / I]	1 SV 1 1		

Ref.No	Part No.	Description	Remark
R536	3069202970	2kΩ	
	0000202070	2888	
R601L/R	3069753970	75kΩ	Dom.
R602L/R	3069104970	100kΩ	Dom.
R603	•	Not used!	
R604	3069302970	3kΩ	Dom.
R605	3069473970	47kΩ	Dom.
R606 - R607	3069202970	2kΩ	Dom.
R608	3069473970	47kΩ	Dom.
R609L/R	3069104970	100kΩ	Dom.
R610L/R	3069823970	82kΩ	Dom.
R611	3069302970	3kΩ	Dom.
11011	0000002070	OKS	DOM.
Variable	Recistor		<b>!</b>
VR201 – VR204	3248020243	2kΩ(B)	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		44. 4.19.	
VR301L/R	3248010343	10kΩ(B)	
VR302/VR303	3248050243	5kΩ(B) <sup>-</sup>	
VR501L/R	3248010343	10kΩ(B)	
VR502L/R	3248010343	10kΩ(B)	
·			
Transisto	ors		
Q101	2208206105	KTA1266Y PNP	
Q102	2208222105	DTA114Y PNP	
Q103	2208622106	DTC114Y NPN	
Q104	2208606113		
Q105	2208222105	DTA114Y PNP	
Q106	2208622106	DTC114Y NPN	
Q107	2208206105	KTA1266Y PNP	
Q108	2208606112	KTD1302 NPN	
Q109	2208206105	KTA1266Y PNP	
Q201 - Q203	2208222105	DTA114Y PNP	
Q204 Q206	2208606112	KTD1302 NPN	
Q207 - Q209	2208206105	KTA1266Y PNP	
Q210	2208622106	DTC114Y NPN	
Q213	2208206105	KTA1266Y PNP	
Q214/Q215	2208722100	2SA1515 PNP	
Q216 - Q218	2208622106	DTC114Y NPN	
Q219	2208722100	2SA1515 PNP	
Q220	2208606113	KMPS A56 PNP	
Q221 - Q223	2208622106	DTC114Y NPN	- 1
Q224	2208206105	KTA1266Y PNP	
O225	2208722100		
Q301	2208406117	KTC2236AY NPN	
Q302	2208606112	KTD1302 NPN	
Q303	2208606114		
Q304 - Q306	2208622106	DTC114Y NPN	
Q307	2208606114	KMPS A06 NPN	
Q401L/R	2208606112	KTD1302 NPN	
Q402L/R	2208606112	KTD1302 NPN	
Q403L/R-Q414L/R	2208622108		
Q415L/R	2208606112	KTD1302 NPN	
Q501L/R	2208622108	DTC114T NPN	
Q502	2208622108		
Q506L/R	2208622106	DTC114Y NPN	
Q507/Q508	2208622108	DTC114T NPN	
Q509L/R	2208622106	DTC114Y NPN	
	220022100		

Ref.No	Part No.	Description	Remark
Q510L/R	2208622106	DTC114Y NPN	
Q511 - Q515	2208606114	KMPS A06 NPN	
Q601	2208206105	KTA1266Y PNP	
Q602/Q603	2208622108	DTC114T NPN	
Q604	2208206105	KTA1266Y PNP	
Others	L		<u> </u>
RLY501	5528001020	RY - 12W - K	
Resonator	3938101880	4.19MHz	
•	4235007210	Terminal Ground	· ·

Ref.No	Part	No.		Description			Remark
<b>Dolby</b>	P.	C.	Boar	ď			111 1111 1111
Capacito	rs						
C701L/R	34792	47971	Electric SA	4.7uF	50V	М	
C702L/R	34792	47971	Electric SA	4.7uF	50V	М	
C703 - C704	34793	22121	Electric SG	220uF	10V	M	
C705L/R	34792	47971	Electric SA	4.7uF	50V	M	
C706	34793	22061	Electric SG	22uF	50V	М	
C707	34793	33061	Electric SG	33uF	35V	М	
C708L/R	36793	92120	Mylar	0.0039uF	100V	J	
C709L/R	36792	22120	Mylar	0.0022uF	100V	J	
C710L/R	36792	22120	Mylar	0.0022uF	100V	j	
C711L/R	36791	02120	Mylar	0.001uF	100V	J	
C712L/R	36791	02120	Mylar	0.001uF	100V	J	
C713L/R	34792	33971	Electric SA	3.3uF	50V	M	
C714L/R	36792	22120	Mylar	0.0022uF	100V	J	
C715L/R	35191	04935	Ceramic	0.1uF	50V	K	
C716L/R	35191	04935	Ceramic	0.1uF	50V	к	
C717L/R	34792	47971	Electric SA	4.7uF	50V	м	
C718L/R	34793	47041	Electric SG	47uF	25V	М	
C719/C720	34793	33061	Electric SG	33uF	35V	м	
C721L/R	35791	03530	Ceramic	0.01uF	50V	ĸ	
C722	35191	04935	Ceramic	0.1uF	50V	ĸ	
C723	34792	33871	Electric SA	0.33uF	50V	м	
C724	35191	04935	Ceramic	0.1uF	50V	K	
C725L/R	35791	03530	Ceramic	0.01uF	50V	ĸ	
C726	34792	68871	Electric SA	0.68uF	50V	м	
C727		33871	Electric SA		50V	м	
C728/C729	34792	10971	Electric SA	1uF	50V	М	
C730	1	04935	Ceramic	0.1uF	50V	ĸ	
C731	34793	47041	Electric SG	47uF	25V	М	
Connecto	ors			·····			
CNT401/CNT402	44285	60120	Board to B	oard Plug 1	2P	T	
Coils	L						
L701L/R	26583	11020	MPX Filter,	105KHz			
Diodes	1					L	
D701 - C703	20583	22101	1N4148M			T	
IC's							
IC701	21680	11134	HA12170NT	, Dolby B/	C NR		
IC702	21682	06103					
IC703	21680	27201	BA335, Bla				
IC704	21680	22101	BA336, AM			- 1	
IC703 IC704							

Ref.No	Part No.	Description	Remark
Resistor	S		
R701L/R	3069682970	6.8kΩ	
R702L/R	3069302970	3kΩ	l
R703L/R	3069223970	22kΩ	1
R704	3069183970	18kΩ	
R705L/R	3069242970	2.4kΩ	1
R706L/R	3069682970	6.8kΩ	
R707L/R	3069561970	560Ω	
R708L/R	3069102970	1kΩ	
R709	3069243970	24kΩ	Ì
R710	3069223970	22kΩ	
R711	3069103970	10,Ω	
R712	3069302970	3kΩ	
R713	3069473970	47kΩ	
R714L/R	3069333970	33kΩ	
R715L/R	3069103970	10kΩ	
R715L/R	3069562970	5.6kΩ	Dom.
R716L/R	3069752970	7.5kΩ	
R717L/R	3069473970	47kΩ	
R718L/R	3069103970	10kΩ	
R719L/R	3069100970	10Ω	
R720	3069103970	10kΩ	
R721L/R	3069473970	47kΩ	
R722	3069103970	10kΩ	
R723	3069224970	220kΩ	
R724	3069183970	18kΩ	i
R725	3069681970	680Ω	
R726L/R	3069473970	47kΩ	1
R727	3069682970	6.8kΩ	
R728/R729	3069103970	10kΩ	
R730	3069394970	390kΩ	
R731	3069274970	270kΩ	
R732	3069103970	10kΩ	
Variable	Resistor	'S	
VR701L/R	3069020343	20kΩ(B)	
	333353340		
Transist	ors		
Q701L/R	2208622106	DTC114Y NPN	
Q702L/R	2208622106	DTC114Y NPN	
Q703	2208206105	KTA1266Y PNP	
Q704/Q705	2208622106	DTC114Y NPN	

Ref.No.	Part No.	D	escription			Remark
MIC I	P. C. B	oard				
Capacit	ors					
C801L/R	3479247971	Electric SA	4.7uF	50V	М	
C802L/R	3479247971	Electric SA	4.7uF	50V	М	
C803	3479333061	Electric SG	33uF	35V	М	
C804	3479333061	Electric SG	33uF	35V	M	
C805	3519104935	Ceramic	0.1uF	50V	K	
C806	•	Not used !				
C807L/R	3579221130	Ceramic	220pF	50V	J	
Connec	tors	<u></u>				
SLT503	4119213204	Wire Flat 13P 20	Omm to Main	Board		

Ref.No	Part No.	Description	Remark
IC			
IC801	2168206103	KIA4559, MIC	
Resisto	rs		
R801	3069240970	24Ω	1
R802L/R	3069104970	100kΩ	
R802L/R	3069563970	56kΩ	Dom
R803L/R	3069102970	10	
R803L/R	3069621970	620Ω	Dom
R804L/R	3069104970	100kΩ	
R805L/R	3069102970	1kΩ	
R806L/R	3069473970	47kΩ	1
R807	3069472970	4.7kΩ	1

Ref.No	Part No.	Description	Remark
Displa	y P.C.	Board	
Capacito	ors		
C901L/R	3519104935	Ceramic 0.1uF 50V K	
C902L/R	3479210041	Electric SA 10uF 25V M	
C903L/R	3479247941	Electric SA 4.7uF 25V M	
Connect	ors		
SLT204	4119208184	Wire Flat 8P 180mm to Main B'D	
SLT502	4119209264	Wire Flat 9P 260mm to Main B'D	
LED's			
D901	2371124501	SLR - 34 - YCD, Memory	
D902	2371124501	SLR - 34 - YCD, Dolby B	
D903	2371124501	SLR - 34 - YCD, Dolby C	
D904	2371124501	SLR - 34 - YCD, Blank Skip	
D905	2371124501	SLR - 34 - YCD, Nor - Dubbing	
D906	2371124501	SLR - 34 - YCD, Hi - dubbing	
D907	2371124501	SLR - 34 - YCD, R.Play, A Deck	
D908	2371124501	SLR - 34 - YCD, F.Play, A Deck	
D909	2371124501	SLR - 34 - YCD, Relay Play	
D910	2371124501	SLR - 34 - YCD, R.Play, B Deck	
D911	2371124501	SLR - 34 - YCD, F.Play, B Deck	
D912/D913	2371124501	SLR - 34 - YCD, Power On	
D914L/R	2371124501	SLR - 34 - YCD, - 10dB	
D915L/R	2371124501	SLR - 34 - YCD, - 6dB	
D916L/R	2371124501	SLR - 34 - YCD, - 3dB	
D917L/R	2371124701	SLR - 34 - URC, 0dB	
D918L/R	2371124701	SLR - 34 - URC. + 3dB	
D919L/R	2371124701	SLR - 34 - URC, + 6dB	
D920	2371124701	SLR - 34 - URC, Rec	
Resistor	c		
R901L/R	3069333970	33kΩ	
R902L/R	3069682970	6.8kΩ	
R903L/R	3069202970	2kΩ	
R904L/R	3069822970	8.2kΩ	
R905L/R	3069103970	10Ω	
R906	3069331970		
R907L	R909L/R	3069152970	1.5kΩ
R909L/R	HOUSE/II	0000102070	1.00.40
R910	3069101970	100Ω	
R911	3069271970	270Ω	
R912 - R919	3069680970		
R920	3069681970	680Ω	
Transist			
Q901L/R	2208606104	KTC1815Y	

Ref.No.	Part No.	Description	Remark
Switch	h P.C.	Board	
Connect	or		
SLT206	4119211204	Slat wire 11P	

Ref.No.	Part No.	Description	Remark
Mode	P.C.	3oard	
Connect	or		
SLT201	4119205264	Wire Flat 5P 260mm to Main Board	
Diodes	<u> </u>		1
D001/D002	2058322101	1N4148M	
		*	

Ref.No	Part No.		Description			Remark
Headp	hone	P.C.	Boar	d		
Capacito	rs					
C1001 - C1003	3519104935	Ceramic	0.1uF	50V	K	
Connecto	or					
SLT301	4119203404	Wire Flat 3P	400mm to Main	Board		
					- 1	

Ref.No.	Part No.	Description	Remark
Power	Switc	h P. C. Board	
Connect	or	·	
SLT102	4119206284	Wire Flat 6P 280mm to Main Board	

Part No.	Description	Remark
P.C.	Board	
or		
4428525790	Plug 3P	
1		
5508302034	T1A 250V	C,D,F,KLE,SGE
5508301434	T315mA 250V	В
5508201330	NB300mA 250V	Dom.
5508301734	T630mA 250V	В
5508201830	NB750mA 250V	Dom.
4255001010	Clip Fuse	
2828087307	Transformer 120V 60Hz	A
2828087407	Transformer 120V/60Hz 220V/50Hz	В
2828082007	Transformer 230V 50Hz	C,D,F,SGE.
2828089907	Transformer 240V 50Hz	E
2828092007	Transformer 220V 50Hz	KLE
2828089807	Transformer 110V/220V 60Hz	Dom.
	P.C. or 4428525790  5508302034 5508301434 5508201330 5508201830  4255001010 2828087307 2828087407 2828082007 2828089907 2828089907 2828099007	P.C. Board  Or  4428525790 Plug 3P  55083012034 T315mA 250V T315mA 250V NB300mA 250V NB300mA 250V NB750mA 250V NB750mA 250V NB750mA 250V  Clip Fuse Transformer 120V 60Hz Transformer 120V/60Hz 220V/50Hz Transformer 230V 50Hz Transformer 240V 50Hz

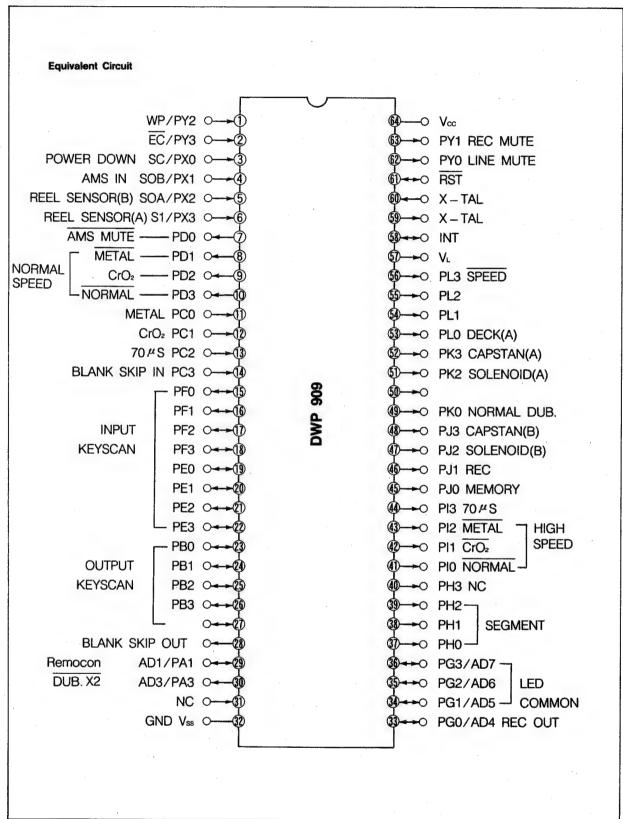
# Mechanical Parts List

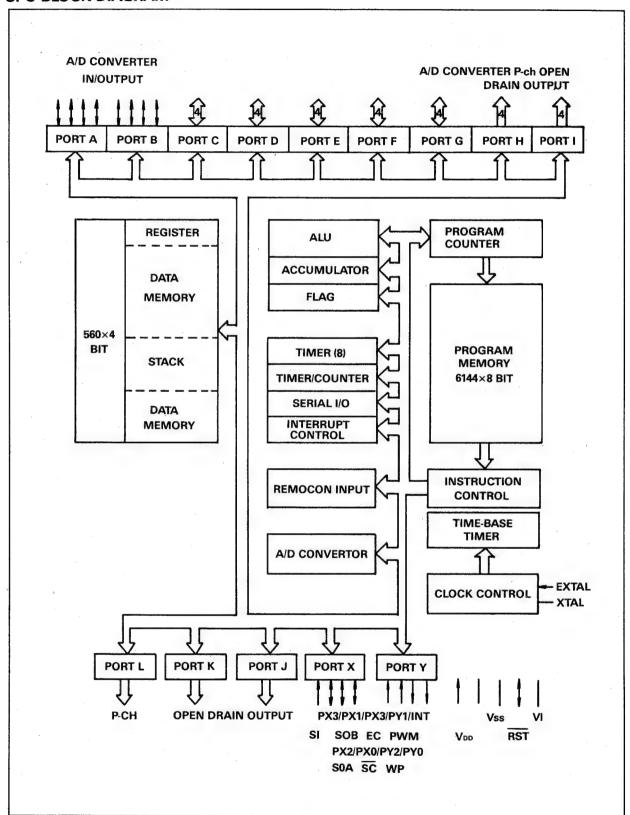
No.	Description	Part No.	Q'ty	Remark
- 1	Panel Front, Black	048501022411	1	
1	Panel Front, Black	048501022412	1	DOM.
2	Badge, Sherwood	048535031911	1	
2	Badge	048535032511	1	DOM.
3	Button Power, Black	8545074310	1	
4	Spring Button	6555004380	1	
5	Label Silver	9057079250	2	
6	Casette Case	8562002310	2	
7	Door Deck, A	048563005711	1	
8	Window Door	048555037511	2	
9	Spring Door, A	6555011010	1	
10	Spring Door, B	6555011020	1	
11	Diffuser LED	8535036110	1	
12	Inlay LED	048535034710	1	
13	Window LED	048555037410	1	
14	Door Deck, B	0485630057410	1	·
15	Button Main, A, Black	048543041711	1	
16			1	
	Button Main, A, Black	048543041721		
17	Knob Phone, Black	048545076011	2	DOM
18	Knob MIC	048545085811	1 .	DOM.
19	Knob Slide	8542084520	2 .	
20	Switch Slide	4618006710	2	
21	Jack Phones, 3P	4438005010	1	
22	Bracket Phone	6505092310	1	
23	Counter Tape	5318003310	1	·
24	Belt	7165000610	1	
25	Bracket Counter	6105116110	1	
26	Holder LED	6513005210	1	
27	Button Push	8545092110	2	
28	Switch Push	4618058810	1	
29	Switch Tact	4658003710	18	
30	Hinge Case, B	6515012820	1	
31	Button Eject	8543041910	2	
32	Spring Eject	6555607310	2	
33	Mecha Deck, A	5708012510	1	
34	Air Damper	6308001510	2	
35	Bracket Damper, A	6105115910	1	
36	Bracket Mechanism	6103022410	1	
37	Locker Eject, A	7143103910	1	
38	Spring Locker, A	6555802310	1	
39	VR Level, 100KA×2	3208062610	1	$\bigcirc \cdot \bigcirc$
40	VR Balance, 100KSW	3208062010	1	
41	VR MIC, 10KA×1	3208059510	1	DOM.
42	Jack Phones, 9P	4438005210	1	DOINI.
43	Bracket VR	6105116210	1	/ (4)
44	Center Ring	6515013010	1	DOM.
45	Nut M9	0010010010	3	DOM.
46				
	Nut M12	E700010010	1	
47	Mechanism Deck, B	5708012610	1.	
48	Bracket Damper, B	6105116010	1	
49	Hinge Case, A	6515012810	1	
50	Bracket Mechanism	6103022410	1	
51	Locker Eject, B	7143103920	1	
52	Spring Locker, B	6555802320	_1	
53	Cover Top, Black	046122020311	1	
54	Frame Side, L	6122632810	1	
55	AC Out Let, Black	4448103910	-1	DOM.
56	AC Out Let, Black	4448103610	1	C,D,F
56	AC Out Let, Black	4448103210	1	A,B
57	AC Power Socket, Black	4448003510	1	DOM.,A,B
58	AC Power Socket, Black	4448003310	1	C,D,E,F
58	Switch Power	4628035210	1 I	

No.	Description	Part No.	Q'ty	Remark
59	Rubber	6715016230	1	
60	Voltage Selector	4618006610	1	DOM.,B
61	Heatsink	7505206120	1	
62	Heatsink Regulator TR	7505202410	3	
63	Jack RCA, Digi	4438105010	1	'
64	Jack RCA, 4P	4438103110	1	
65	Bracket P.C.Board	6505116310	1	
66	Frame Side, R	6123620120	1	
67	Cover Buttom	6122416040	1	
68	Foot, Hot Stamping, Gold	046033101611	4	
69	Power Transformer	2828087307	- 1	A
69	Power Transformer	2828087407	1	В
69	Power Transformer	2828082007	1	C,D,F,SGE
69	Power Transformer	2828089907	1	E
69	Power Transformer	2828092007	1	KLE
69	Power Transformer	2828089807	1	DOM.
70	Nut M4XY	8209540011	2	
71	Back Chassis, Black	6102032410	1	
72	Ground Terminal	4408104910	1	DOM.
73	AC Cord Set, Black	4308001810	1	DOM.
73	AC Cord Set, Black	4308005710	1	A,B
73	AC Cord Set, Black	4308006610	1	A,C,F
73	AC Cord Set, Black	4308006010	1	F
74	AC Adapter, Black	4428300310	1	DOM.
75	Shield Plate	.6165142110	1	
76	Bracket Trans	6505124910	1	
Scre	WS		· .	
S1	#2 WPTC 3×8 ZNY	8159230081	10	*
S2	#2 BTC 3×8 ZNB	8109230083	14	
S3	#2 BTC 3×8 ZNY	8109230081	33	
S4	Shoulder	8095003310	4	
S5	SAM 3×4 ZNY	8109420041	4	
S6	#2 PTC 3×8 ZNB	8109230083	1	
S7	WSAM 4×8 ZNB	8119440083	4	
S8	#2 PTC 4×6 ZNY	8119240061	3	`
W1	Washer	8309030011	2	

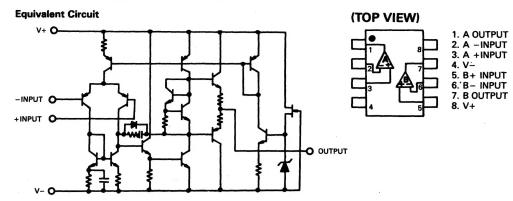
# IC Lead Identification and Internal Diagram

DWP909: IC201

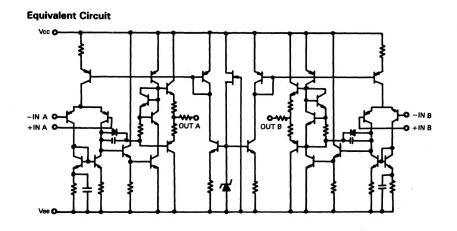


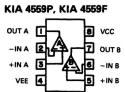


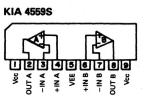
#### NJM2068 - (PB AMP): IC501, IC503



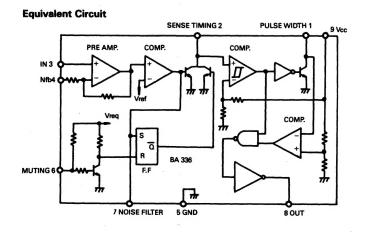
#### KIA4559S (6559) — REC AMP,PHONES,MIC AMP. : 401,IC702,IC801



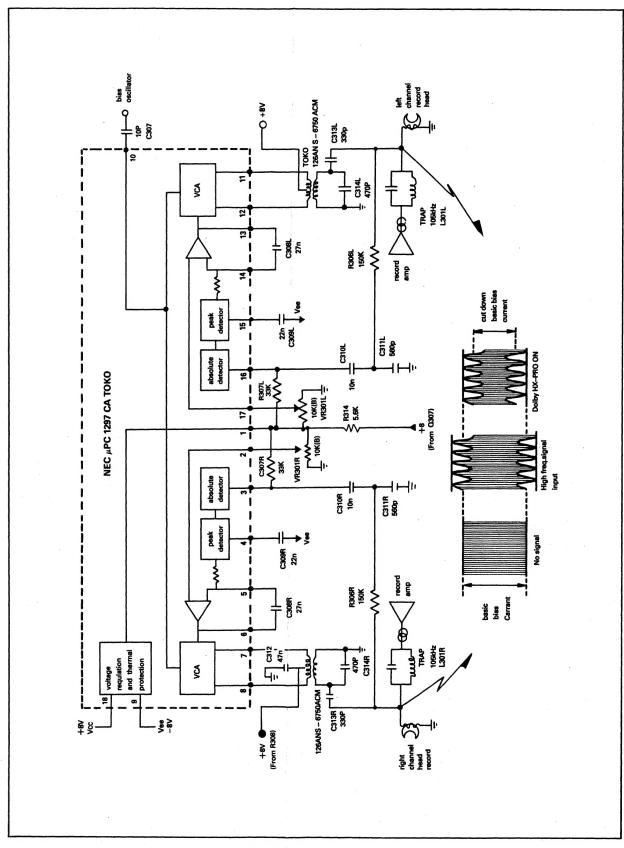




#### BA336 (AMS IC): IC704

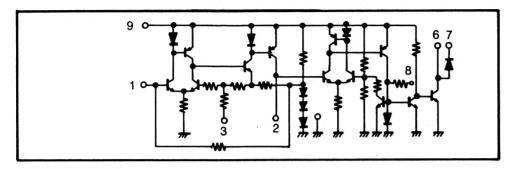


#### **μPC 1297 CA: IC301**

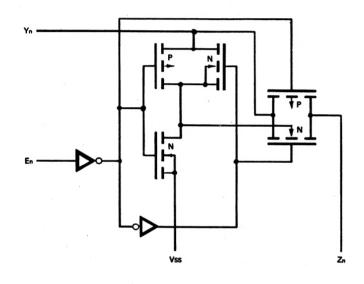


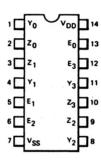
#### BA335 (BLANK SKIP): IC703

**Equivalent Circuit** 



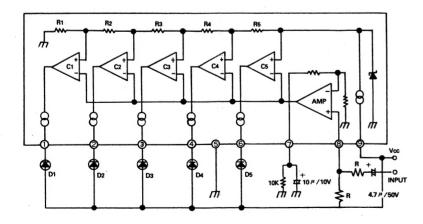
#### GD4066B (A & B DECKS SW): IC502,IC602





# NOTE The SO Package has the same pinouts (Connection Diagram) as the Dual In-line Package.

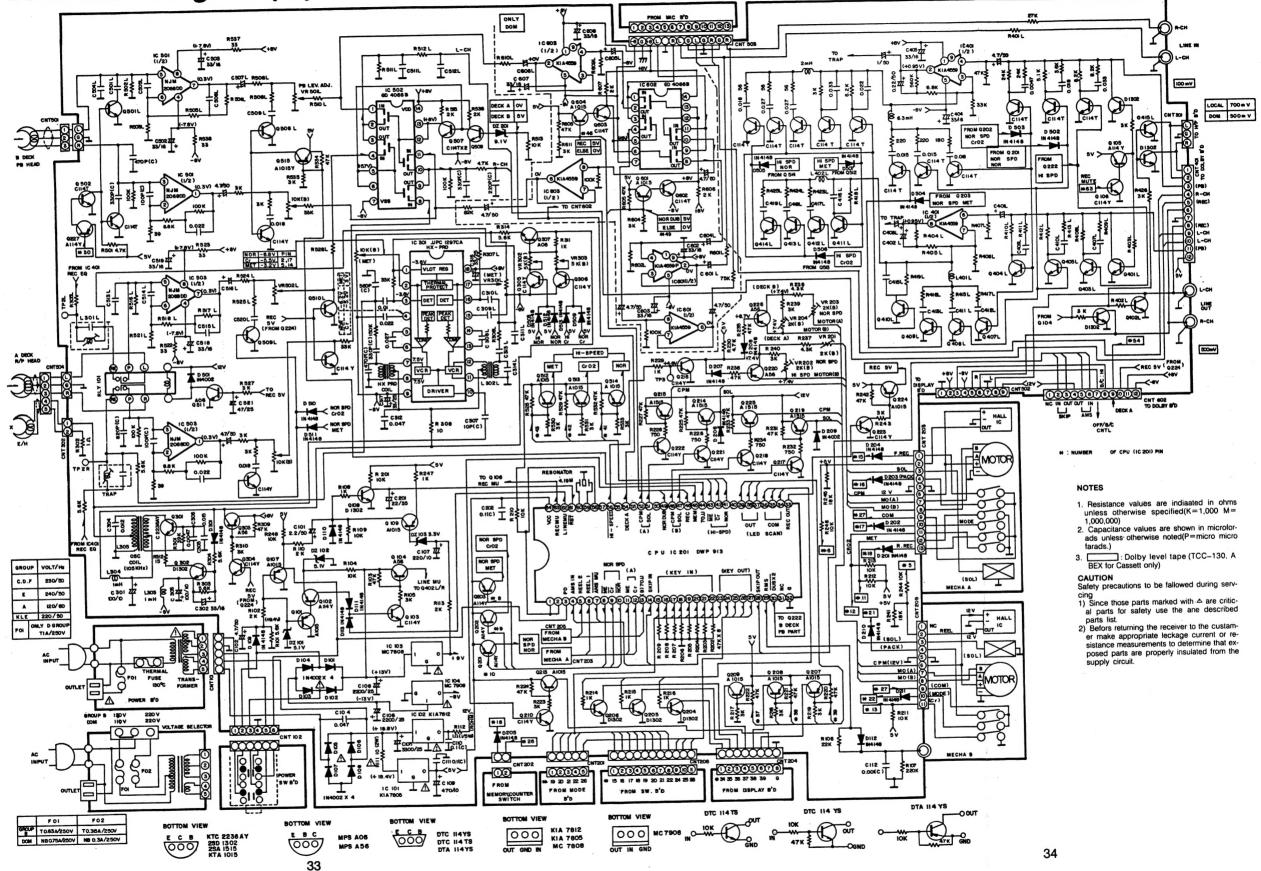
#### KA2284 (LED DRIVER : IC901L/R) Equilvent Circuit



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Note:		 	
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·	 	 	

# Schematic Diagram (I)



## Schematic Diagram (II)

Model No.: DD - 3010C

